ELSEVIER

Journal of Organometallic Chemistry 645 (2002) 293–294

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Author Index of Volume 645

Akagi, T., 201
Alvarez Toledano, C., 183
Aplin, R.T., 176
Arakawa, R., 94
Asadi, A., 105

Bacsa, J., 206
Banerjee, A., 33
Beagley, P., 206
Bera, A.K., 33
Bhattacharya, S., 33
Bogardi, R., 65
Bohra, R., 118
Borisov, Y.A., 87
Bosque, R., 146
Boudjouk, P., 1
Bradley, D.D.C., 168
Brauer, D.J., 14
Bukowska-Strzyżewska, M., 268
Buston, J.E.H., 176

Calò, V., 152
Caruso, F., 134
Caubet, A., 146
Cecconi, F., 101
Chakraborty, S., 33
Chan, A.S.C., 59
Chandrasekaran, A., 158
Cha, S.-H., 47
Chaudret, B., 288
Chauhan, M., 1
Chen, J., 127
Chen, K., 168
Chen, X.P., 59
Chen, Y., 82
Chien, J.C.W., 158
Choo, T.N., 235
Cingolani, A., 134
Cuenca, T., 112

Dai, X., 212, 262
Dhanalakshmi, K., 27
Ding, K., 59
Drake, J.E., 118

Engelbrecht, P., 65
Espinosa-Pérez, G., 54
Evans, C., 281

Font-Bardia, M., 146
Fox, A.M., 168
Friend, J., 218

Gan, J., 168
Ghilardi, C.A., 101
Ghosh, S., 33, 33
Giannoccaro, P., 152
González-Maupoey, M., 112
Gupta, A., 118

Hauck, B.J., 1
Henderson, R.A., 290
He, R., 127
Hill, J., 168
Hingst, M., 14
Hitchcock, P.B., 105
Huang, J., 59
Huang, Q., 59
Hursthouse, M.B., 118
Hutton, A.T., 206

Imrie, C., 65
Ishikawa, M., 47
Iwata, M., 201

Jain, V.K., 118
Jin, K., 127
Jones, C., 256
Jung, K.A., 201

Kamyshova, A.A., 87
Katayama, H., 192
Keller, L.P., 1
Kivekäs, R., 39
Klimova, E.I., 183
Klimova, T., 183
Klys, A., 268
Kobayashi, M., 192
Kottsieper, K.W., 14
Kreindlin, A.Z., 87
Kwak, Y.-W., 47
Kwok, W.-H., 235

Lane, P.A., 168
Lee, K.-K., 47
Leng, X., 287
Levendis, D.C., 65
Liek, C., 14
Light, M.E., 118
López, C., 146
Loubser, C., 65
Lydon, D.P., 246

Maldanis, R.J., 158
Marchetti, F., 134
Martinez Garcia, M., 183
Martinez Mendoza, J.M., 183
Master, S.Y., 218
Matsubayashi, G.-e., 94
McCleland, C.W., 65
Mendez Iturbide, D., 183
Midollini, S., 101
Miki, K., 228
Minami, T., 192
Moloney, M.G., 176
Monopoli, A., 152
Moss, J.R., 206

Nacci, A., 152
Naka, A., 47
Nakano, M., 94
Nekrasov, Y.S., 87
Nicholson, B.K., 281
Nickel, T., 14
Nie, W., 82
Nishino, F., 228
Nyamori, V.O., 65

Ogino, H., 201
Ohe, K., 228
Okada, H., 201
Okazaki, M., 201
Orlandini, A., 101
Ozawa, F., 192

Paavola, S., 39
Pal, A.K., 33
Petrovskii, P.V., 87
Pettinari, C., 134
Pettinari, R., 134
Preece, I., 218

Qian, C., 82
Qian, M., 127
Qian, Y., 59
Qingmin, W., 286

Rahn, M.D., 168
Rausch, M.D., 158
Reyes-Lezama, M., 54
Richards, A.F., 256
Rickard, C.E.F., 235
Rodriguez, G., 112
Roper, W.R., 235
Rossi, M., 134
Rourke, J.P., 246
Ruben Toscano, A., 183
Ruiz Ramirez, L., 183
Runqiu, H., 286
Rybinskaya, M.I., 87
Ryowa, T., 94

Sagawa, T., 192
Satoh, K., 201
Sharma, R.K., 118

PII: S0022-328X(02)01118-X

Sheldrick, W.S., 14
Shiozawa, R., 201
Shi, Z., 127
Slater, J.W., 246
Sobota, P., 292
Solans, X., 146
Spencer, D.M., 218
Starr, E.J., 206
Stelzer, O., 14
Sundararajan, G., 27
Sun, J., 82
Suo, Q.L., 287

Tamura, H., 94
Taniguchi, K., 192
Tarassoli, A., 105
Taylor, K.J., 218
Teixidor, F., 39
Tepper, M., 14
Tian, H., 168
To, A., 218
Tobita, H., 201
Tolom, N., 65
Tosik, A., 268

Uemura, S., 228
Ueno, K., 201

van Rooyen, J., 65
Viñas, C., 39

Wang, B., 212, 262
Wang, L., 287
Wang, M., 127
Wang, Y., 287
Wang, Z., 168
Waters, J., 218
Weng, L., 212
Wen, L., 287
Whiteley, M.W., 218
Williams, N., 65
Wong, W.T., 59
Wood, J.S., 158
Wright, L.J., 235
Wu, T., 212

Xu, S., 212, 262

Yokoi, T., 228
Yu, X., 127

Zakrzewski, J., 268
Zhang, H., 287
Zhang, Y., 59
Zhou, X., 212, 262
Zimniak, A., 274
Zúñiga-Villarreal, N., 54

ELSEVIER

Journal of Organometallic Chemistry 645 (2002) 295–299

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Subject Index of Volume 645

Acetaldazine
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274

4-Acyl-5-pyrazolones
Organotin(IV) derivatives of novel β-diketones: Part V. Synthesis and characterization of di- and triorganotin(IV) derivatives of 4-acyl-5-pyrazolones modified in position 3 of the pyrazole. Crystal structure of (1,3-diphenyl-4-benzoyl-pyrazolon-5-ato)triphenyltin(IV), 134

Alkenylsilanes
Ruthenium-catalyzed hydrosilylation of terminal alkynes: stereodivergent synthesis of (*E*)- and (*Z*)-alkenylsilanes, 192

4-Alkoxy-4′-stilbazole
Angular (*cis*-stilbazole) geometry in octahedral dimethyldihalidoplatinum(IV) complexes: potential as metallomesogens and X-ray structure of $[PtMe_2I_2(NC_5H_4CH{=}CHC_6H_4OC_7H_{15})_2]$, 206

Alkylation
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183

Alkyl lithium
Reactions of bulky alkyl lithium reagents with a phosphaalkyne (P≡CBu^t): synthesis and structural characterisation of a mixed valent phosphorus cage compound, $P^{III}\{\mu\text{-}C(H)(Bu^t)\}_2\{\mu\text{-}C(H)(SiMe_3)Si(Me)_2C(H)_2\}P^V{=}C(SiMe_3)_2$, and a phosphaalkenyl-substituted η^3-azaallyl-lithium complex, $[Li(tmeda)\{C(SiMe_3)(2\text{-}NC_5H_3Me\text{-}6)[P{=}C(Bu^t)(SiMe_3)]\}]$, 256

Alkynes
Hydrosilylation of alkynes catalyzed by platinum on carbon, 1
Ruthenium-catalyzed hydrosilylation of terminal alkynes: stereodivergent synthesis of (*E*)- and (*Z*)-alkenylsilanes, 192

Allyl ligand
Investigations on the trigonal twist process in the pseudooctahedral complexes $[MX(CO)_2(P\text{–}P)(\eta^3\text{-}R)]$ (M = Mo or W; X = halide or pseudohalide; P–P = bidentate P-donor ligand; R = cycloheptatrienyl, cyclohexenyl or cyclooctenyl), 218

Anionic complex
Convenient preparation of $Li[(\eta^5\text{-}C_5Me_4)M(CO)_2]$ (M = Ru, Fe) by the reaction of $(\eta^5\text{-}C_5Me_5)M(CO)_2H$ with *n*-BuLi, 201

Ansa-Lanthanoidocene
Synthesis and crystal structure of one carbon-atom bridged lutetium complex $[Ph_2C(Flu)(Cp)]LuN(TMS)_2$ and catalytic activity for polymerization of polar monomers, 82

Arylferrocenylphenyl amines
Synthesis of ferrocenylphenyl derivatives including biphenylferrocenes, arylferrocenylphenyl ethers and arylferrocenylphenyl amines, 65

Arylferrocenylphenyl ethers
Synthesis of ferrocenylphenyl derivatives including biphenylferrocenes, arylferrocenylphenyl ethers and arylferrocenylphenyl amines, 65

Aryl halides
Pd–benzothiazole carbene catalysed carbonylation of aryl halides in ionic liquids, 152

Aryllead
Detection of aryllead(IV) carboxylates and their solvent adducts by ESI-mass spectrometry, 176

Assignment of ^{1}H-NMR signals
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274

Azines
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274

Biphenylferrocenes
Synthesis of ferrocenylphenyl derivatives including biphenylferrocenes, arylferrocenylphenyl ethers and arylferrocenylphenyl amines, 65

Biphenylyl substituents
Water soluble phosphines: Part XV. Syntheses of multiply functionalized and chiral phosphine ligands by Pd-catalyzed P–C and C–C coupling reactions, 14

Bis(2-diphenylphosphinoethyl)methylamine
Synthesis of cobalt(II) and iron(II) complexes with the ligand bis(2-diphenylphosphinoethyl)methylamine and their catalytic action on ethylene oligomerization. X-ray crystal structure of $[CoCl_2\{CH_3N(CH_2CH_2PPh_2)_2\}]$, 127

Bis(tricarbonyliron)
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274

Boron tribromide
Intramolecular cyclization of benzyl-substituted cyclopentadienyl titanium dichlorides promoted by boron tribromide, 59

Bromopentacarbonylmanganese
A mixed-valence dimanganese complex synthesized from the $[Ph_2P(O)NP(O)Ph_2]^-$ anion with $[BrMn(CO)_5]$, 54

Cage compound
Reactions of bulky alkyl lithium reagents with a phosphaalkyne (P≡CBu^t): synthesis and structural characterisation of a mixed valent phosphorus cage compound, $P^{III}\{\mu\text{-}C(H)(Bu^t)\}_2\{\mu\text{-}C(H)(SiMe_3)Si(Me)_2C(H)_2\}P^V{=}C(SiMe_3)_2$, and a phosphaalkenyl-substituted η^3-azaallyl-lithium complex, $[Li(tmeda)\{C(SiMe_3)(2\text{-}NC_5H_3Me\text{-}6)[P{=}C(Bu^t)(SiMe_3)]\}]$, 256

Calculations by ab initio density-functional method
Generation of $[1,2\text{-}(CH_2)_2C_5Me_3MC_5Me_4CH_2\text{-}1']^+$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87

PII: S0022-328X(02)01119-1

Carbonylation
Pd–benzothiazole carbene catalysed carbonylation of aryl halides in ionic liquids, 152
Carboxylates
Detection of aryllead(IV) carboxylates and their solvent adducts by ESI-mass spectrometry, 176
Catalyst
Hydrosilylation of alkynes catalyzed by platinum on carbon, 1
Catalyzed reaction
Platinum- and nickel-catalyzed reactions of 1,2-dimethyl-1,2-diphenyl-1,2-disilacyclopentane with alkynes, 47
C–H activation
Palladium(II) induced preferential activation of the σ(C_{sp3}–H) versus the σ($C_{sp2,\ ferrocene}$–H) bond of (*S*$_C$)-[(η^5-C_5H_5)Fe-{(η^5-C_5H_4)–CH=N–CH(CO_2Me)CH_2–CH_2–SMe}], 146
Chiral
Doubly cyclopalladated pyridazines: chiral liquid crystals, 246
Chromium
Synthesis of 2-pyranylidene or (2-furyl)carbene–chromium complexes from conjugated enyne carbonyl compounds with Cr(CO)$_5$(THF), 228
Cluster
A structural isomer of the $[CoFe_3(CO)_{13}]^-$ anion, 281
Cobalt
A structural isomer of the $[CoFe_3(CO)_{13}]^-$ anion, 281
Cobalt and iron complexes
Synthesis of cobalt(II) and iron(II) complexes with the ligand bis(2-diphenylphosphinoethyl)methylamine and their catalytic action on ethylene oligomerization. X-ray crystal structure of [$CoCl_2${$CH_3N(CH_2CH_2PPh_2)_2$}], 127
Colloids
Hydrosilylation of alkynes catalyzed by platinum on carbon, 1
Complementary X-ray-NMR study
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274
Conformational analysis
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274
Consecutive reactions
Water soluble phosphines: Part XV. Syntheses of multiply functionalized and chiral phosphine ligands by Pd-catalyzed P–C and C–C coupling reactions, 14
Crystal structure
Angular (*cis*-stilbazole) geometry in octahedral dimethyldihalidoplatinum(IV) complexes: potential as metallomesogens and X-ray structure of [$PtMe_2I_2(NC_5H_4CH$–$CHC_6H_4OC_7H_{15})_2$], 206
Reactions of bulky alkyl lithium reagents with a phosphaalkyne (P≡CBu^t): synthesis and structural characterisation of a mixed valent phosphorus cage compound, P^{III}{μ-C(H)-(Bu^t)}$_2${μ-C(H)(SiMe$_3$)Si(Me)$_2$C(H)$_2$}P^V–C(SiMe$_3$)$_2$, and a phosphaalkenyl-substituted η^1-azaallyl-lithium complex, [Li(tmeda){C(SiMe$_3$)(2-NC$_5$H$_3$Me-6)[P–C(Bu^t)(SiMe$_3$)]}], 256
Synthesis and crystal structure of one carbon-atom bridged lutetium complex [Ph_2C(Flu)(Cp)]LuN(TMS)$_2$ and catalytic activity for polymerization of polar monomers, 82
Crystal structures
Organotin(IV) derivatives of novel β-diketones: Part V. Synthesis and characterization of di- and triorganotin(IV) derivatives of 4-acyl-5-pyrazolones modified in position 3 of the pyrazole. Crystal structure of (1,3-diphenyl-4-benzoyl-pyrazolon-5-ato)triphenyltin(IV), 134
Study of the *o*-carboranyl fragment as an uncommon substituent. Crystal structures of [PdClMe(1,2-(PPh_2)$_2$-1,2-$C_2B_{10}H_{10}$)]·CH_2Cl_2 and [PdClMe(1,2-(P^iPr_2)$_2$-1,2-$C_2B_{10}H_{10}$)], 39
Synthesis and crystal structures of new complexes of di- and tribenzyltin *N*-ethyl and *N*-benzyl-2-amino cyclopent-1-ene-1-carbodithioates, 105
Synthesis, microbiological study and X-ray structural characterisation of a tri-*n*-butylstannyl-2[4(diethylamino)arylazo]-benzenecarboxylate, 33
Cyclodimers
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183
Cycloheptatrienyl
Investigations on the trigonal twist process in the pseudooctahedral complexes [$MX(CO)_2$(P–P)(η^3-R)] (M = Mo or W; X = halide or pseudohalide; P–P = bidentate P-donor ligand; R = cycloheptatrienyl, cyclohexenyl or cyclooctenyl), 218
Cyclopalladated
Doubly cyclopalladated pyridazines: chiral liquid crystals, 246
Cyclopentadienyl complexes
Preparation and properties of dinuclear bis[dicarbonyl(cyclopentadienyl)]diiron(II) complexes with S–S coupled, dimerized sulfur-rich dithiolate ligands, 94
Cyclopropane
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183

Deprotonation
Convenient preparation of Li[(η^5-C_5Me_4)M(CO)$_2$] (M = Ru, Fe) by the reaction of (η^5-C_5Me_4)M(CO)$_2$H with *n*-BuLi, 201
μ-1,2-(1,2-Diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron)
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274
Dications
Generation of [1,2-(CH_2)$_2$-$C_5Me_3MC_5Me_4CH_2$-1']$^{+\cdot}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87
Dichalcogenoimidodiphosphinate anions
A mixed-valence dimanganese complex synthesized from the $[Ph_2P(O)NP(O)Ph_2]^-$ anion with [$BrMn(CO)_5$], 54
Diels–Alder adducts
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183
Diimine
The formation and polymerization behavior of Ni(II) α-diimine complexes using various aluminum activators, 158
Dinuclear
Synthesis, structure and polymerization catalytic properties of doubly bridged bis(cyclopentadienyl) dinuclear titanium and zirconium complexes, 212
Dinuclear complexes
Syntheses and structures of dimethylamino-bridged bis(silylene)ruthenium and -osmium complexes, 235
Diphosphine
Study of the *o*-carboranyl fragment as an uncommon substituent. Crystal structures of [PdClMe(1,2-(PPh_2)$_2$-1,2-$C_2B_{10}H_{10}$)]·CH_2Cl_2 and [PdClMe(1,2-(P^iPr_2)$_2$-1,2-$C_2B_{10}H_{10}$)], 39
Disilacyclopentane
Platinum- and nickel-catalyzed reactions of 1,2-dimethyl-1,2-diphenyl-1,2-disilacyclopentane with alkynes, 47
Dithiocarboxylato ligands
Synthesis and crystal structures of new complexes of di- and tribenzyltin *N*-ethyl and *N*-benzyl-2-amino cyclopent-1-ene-1-carbodithioates, 105

Dithiolate complexes
Preparation and properties of dinuclear bis[dicarbonyl(cyclopentadienyl)]diiron(II) complexes with S–S coupled, dimerized sulfur-rich dithiolate ligands, 94
Doubly bridged
Synthesis, structure and polymerization catalytic properties of doubly bridged bis(cyclopentadienyl) dinuclear titanium and zirconium complexes, 212

ESI
Detection of aryllead(IV) carboxylates and their solvent adducts by ESI-mass spectrometry, 176
Ethylene oligomerization
Synthesis of cobalt(II) and iron(II) complexes with the ligand bis(2-diphenylphosphinoethyl)methylamine and their catalytic action on ethylene oligomerization. X-ray crystal structure of $[CoCl_2\{CH_3N(CH_2CH_2PPh_2)_2\}]$, 127

Ferrocene
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183
Synthesis and luminescence properties of novel ferrocene–naphthalimides dyads, 168
Ferrocene containing polymers
Synthesis of conjugated polymers with ferrocene units as pendants or as end-groups, 27
Ferrocenylalkenes
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183
Fluxionality
Investigations on the trigonal twist process in the pseudooctahedral complexes $[MX(CO)_2(P–P)(\eta^3\text{-}R)]$ (M = Mo or W; X = halide or pseudohalide; P–P = bidentate P-donor ligand; R = cycloheptatrienyl, cyclohexenyl or cyclooctenyl), 218
Fulvalene
Dinuclear zirconium complexes containing the fulvalene ligand. Synthesis and reactivity, 112
Functionalized chiral phosphines
Water soluble phosphines: Part XV. Syntheses of multiply functionalized and chiral phosphine ligands by Pd-catalyzed P–C and C–C coupling reactions, 14
Furylcarbene
Synthesis of 2-pyranylidene or (2-furyl)carbene–chromium complexes from conjugated enyne carbonyl compounds with $Cr(CO)_5(THF)$, 228

Generation of trications
Generation of $[1,2\text{-}(CH_2)_2C_5Me_3MC_5Me_4CH_2\text{-}1']^{3+}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87
Germyl complex
Convenient preparation of $Li[(\eta^5\text{-}C_5Me_5)M(CO)_2]$ (M = Ru, Fe) by the reaction of $(\eta^5\text{-}C_5Me_5)M(CO)_2H$ with *n*-BuLi, 201

Halogen exchange
Intramolecular cyclization of benzyl-substituted cyclopentadienyl titanium dichlorides promoted by boron tribromide, 59
Hydrosilylation
Hydrosilylation of alkynes catalyzed by platinum on carbon, 1
Ruthenium-catalyzed hydrosilylation of terminal alkynes: stereodivergent synthesis of (*E*)- and (*Z*)-alkenylsilanes, 192

Imidotetraphenyldiphosphinic acid
A mixed-valence dimanganese complex synthesized from the $[Ph_2P(O)NP(O)Ph_2]^-$ anion with $[BrMn(CO)_5]$, 54
Intramolecular cyclization
Intramolecular cyclization of benzyl-substituted cyclopentadienyl titanium dichlorides promoted by boron tribromide, 59

Ionic liquids
Pd–benzothiazole carbene catalysed carbonylation of aryl halides in ionic liquids, 152
IR
Organotin(IV) derivatives of novel β-diketones: Part V. Synthesis and characterization of di- and triorganotin(IV) derivatives of 4-acyl-5-pyrazolones modified in position 3 of the pyrazole. Crystal structure of (1,3-diphenyl-4-benzoyl-pyrazolon-5-ato)triphenyltin(IV), 134
Iron
A structural isomer of the $[CoFe_3(CO)_{13}]^-$ anion, 281
Palladium(II) induced preferential activation of the $\sigma(C_{sp3}–H)$ versus the $\sigma(C_{sp2,\ ferrocene}–H)$ bond of (S_c)-$[(\eta^5\text{-}C_5H_5)\text{-}Fe\{(\eta^5\text{-}C_5H_4)–CH–N–CH(CO_2Me)CH_2–CH_2–SMe\}]$, 146
Iron complexes
Structural studies of the $C_4H_8N_2Fe_2(CO)_6$ complex obtained by cyclization of acetaldazine in the presence of dodecacarbonyl-triiron: investigations by X-ray diffraction and NMR of μ-1,2-(1,2-diaza-3-methylcyclopentane)diyl-bis(tricarbonyliron), 274
Iron(II) complexes
Preparation and properties of dinuclear bis[dicarbonyl(cyclopentadienyl)]diiron(II) complexes with S–S coupled, dimerized sulfur-rich dithiolate ligands, 94
Isomer
A structural isomer of the $[CoFe_3(CO)_{13}]^-$ anion, 281

Linear dimers
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183
Liquid crystal
Doubly cyclopalladated pyridazines: chiral liquid crystals, 246
Luminescent properties
Synthesis and luminescence properties of novel ferrocene–naphthalimides dyads, 168
Lutetium
Synthesis and crystal structure of one carbon-atom bridged lutetium complex $[Ph_2C(Flu)(Cp)]LuN(TMS)_2$ and catalytic activity for polymerization of polar monomers, 82

Mass spectrometry
Detection of aryllead(IV) carboxylates and their solvent adducts by ESI-mass spectrometry, 176
Mesogenic
Doubly cyclopalladated pyridazines: chiral liquid crystals, 246
Metallocene
Synthesis, structures and polymerization catalytic properties of germyl-bridged bis(cyclopentadienyl) metallocenes, 262
Metallomesogen
Angular (*cis*-stilbazole) geometry in octahedral dimethyldihalidoplatinum(IV) complexes: potential as metallomesogens and X-ray structure of $[PtMe_2I_2(NC_5H_4CH=CHC_6H_4OC_6H_{13})_2]$, 206
Metallonium cations
Generation of $[1,2\text{-}(CH_2)_2C_5Me_3MC_5Me_4CH_2\text{-}1']^{3+}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87
Metathesis polymerisation
Synthesis of conjugated polymers with ferrocene units as pendants or as end-groups, 27
Methylmercury
Organomercury derivatives of the 2,4,6-trimercaptotriazine (H_3TMT). X-ray crystal structure of $(HgMe)_3(TMT)$, 101
Molybdenum
Investigations on the trigonal twist process in the pseudooctahedral complexes $[MX(CO)_2(P–P)(\eta^3\text{-}R)]$ (M = Mo or W; X = halide or pseudohalide; P–P = bidentate P-donor ligand; R = cycloheptatrienyl, cyclohexenyl or cyclooctenyl), 218

Monocations
Generation of $[1,2\text{-}\{(CH_2)_2C_5Me_3\}MC_5Me_4CH_2\text{-}1']^{+\cdot}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87

Naphthalimide
Synthesis and luminescence properties of novel ferrocene–naphthalimides dyads, 168

Nickel
Platinum- and nickel-catalyzed reactions of 1,2-dimethyl-1,2-diphenyl-1,2-disilacyclopentane with alkynes, 47
The formation and polymerization behavior of Ni(II) α-diimine complexes using various aluminum activators, 158

NMR
Organotin(IV) derivatives of novel β-diketones: Part V. Synthesis and characterization of di- and triorganotin(IV) derivatives of 4-acyl-5-pyrazolones modified in position 3 of the pyrazole. Crystal structure of (1,3-diphenyl-4-benzoyl-pyrazolon-5-ato)triphenyltin(IV), 134
Triorganoantimony(V) complexes with internally functionallized oximes: synthetic, spectroscopic and structural aspects of $[R_3Sb(Br)L]$, $[R_3Sb(OH)L]$ and $[R_3SbL_2]$, crystal and molecular structures of $[Me_3Sb\{ON{=}C(Me)C_4H_3O\}_2]$, $[Me_3Sb\{ON{=}C(Me)C_4H_3S\}_2]$, 2-$OC_4H_3C(Me){=}NOH$ and 2-$SC_4H_3C(Me){=}NOH$, 118

NMR-spectra
Generation of $[1,2\text{-}\{(CH_2)_2C_5Me_3\}MC_5Me_4CH_2\text{-}1']^{+\cdot}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87

o-Carboranes
Study of the *o*-carboranyl fragment as an uncommon substituent. Crystal structures of $[PdClMe\{1,2\text{-}(PPh_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10}\}]\cdot CH_2Cl_2$ and $[PdClMe\{1,2\text{-}(P^iPr_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10}\}]$, 39

Organotin(IV) compounds
Synthesis and crystal structures of new complexes of di- and tribenzyltin *N*-ethyl and *N*-benzyl-2-amino cyclopent-1-ene-1-carbodithioates, 105

Osmium
Generation of $[1,2\text{-}\{(CH_2)_2C_5Me_3\}MC_5Me_4CH_2\text{-}1']^{+\cdot}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87
Syntheses and structures of dimethylamino-bridged bis(silylene)ruthenium and -osmium complexes, 235

Oxidation
Preparation and properties of dinuclear bis[dicarbonyl(cyclopentadienyl)]diiron(II) complexes with S–S coupled, dimerized sulfur-rich dithiolate ligands, 94

Oximes
Triorganoantimony(V) complexes with internally functionallized oximes: synthetic, spectroscopic and structural aspects of $[R_3Sb(Br)L]$, $[R_3Sb(OH)L]$ and $[R_3SbL_2]$, crystal and molecular structures of $[Me_3Sb\{ON{=}C(Me)C_4H_3O\}_2]$, $[Me_3Sb\{ON{=}C(Me)C_4H_3S\}_2]$, 2-$OC_4H_3C(Me){=}NOH$ and 2-$SC_4H_3C(Me){=}NOH$, 118

Palladium
Palladium(II) induced preferential activation of the $\sigma(C_{sp^3}\text{–}H)$ versus the $\sigma(C_{sp^3;\ ferrocene}\text{–}H)$ bond of (S_c)-$\{(\eta^5\text{-}C_5H_4)\text{-}Fe\{(\eta^5\text{-}C_5H_4)\text{–}CH{=}N\text{–}CH(CO_2Me)CH_2\text{–}CH_2\text{–}SMe\}\}$, 146

Palladium–carbene complexes
Pd–benzothiazole carbene catalysed carbonylation of aryl halides in ionic liquids, 152

Palladium(II)
Study of the *o*-carboranyl fragment as an uncommon substituent. Crystal structures of $[PdClMe\{1,2\text{-}(PPh_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10}\}]\cdot CH_2Cl_2$ and $[PdClMe\{1,2\text{-}(P^iPr_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10}\}]$, 39

Pd-catalyzed P–C and C–C coupling
Water soluble phosphines: Part XV. Syntheses of multiply functionalized and chiral phosphine ligands by Pd-catalyzed P–C and C–C coupling reactions, 14

Phosphaalkenyl
Reactions of bulky alkyl lithium reagents with a phosphaalkyne (P≡CBu^t): synthesis and structural characterisation of a mixed valent phosphorus cage compound, $P^{III}\{\mu\text{-}C(H)(Bu^t)\}_2\{\mu\text{-}C(H)(SiMe_3)Si(Me)_2C(H)_2\}P^V{=}C(SiMe_3)_2$, and a phosphaalkenyl-substituted η^3-azaallyl-lithium complex, $[Li(tmeda)\{C(SiMe_3)(2\text{-}NC_5H_3Me\text{-}6)[P{=}C(Bu^t)(SiMe_3)]\}]$, 256

Phosphaalkyne
Reactions of bulky alkyl lithium reagents with a phosphaalkyne (P≡CBu^t): synthesis and structural characterisation of a mixed valent phosphorus cage compound, $P^{III}\{\mu\text{-}C(H)(Bu^t)\}_2\{\mu\text{-}C(H)(SiMe_3)Si(Me)_2C(H)_2\}P^V{=}C(SiMe_3)_2$, and a phosphaalkenyl-substituted η^3-azaallyl-lithium complex, $[Li(tmeda)\{C(SiMe_3)(2\text{-}NC_5H_3Me\text{-}6)[P{=}C(Bu^t)(SiMe_3)]\}]$, 256

Phosphine ligand synthesis
Water soluble phosphines: Part XV. Syntheses of multiply functionalized and chiral phosphine ligands by Pd-catalyzed P–C and C–C coupling reactions, 14

Platinum
Platinum- and nickel-catalyzed reactions of 1,2-dimethyl-1,2-diphenyl-1,2-disilacyclopentane with alkynes, 47

Platinum(IV)
Angular (*cis*-stilbazole) geometry in octahedral dimethyldihalidoplatinum(IV) complexes: potential as metallomesogens and X-ray structure of $[PtMe_2I_2(NC_5H_4CH{=}CHC_6H_4OC_{12}H_{25})_2]$, 206

^{31}P-NMR
Study of the *o*-carboranyl fragment as an uncommon substituent. Crystal structures of $[PdClMe\{1,2\text{-}(PPh_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10}\}]\cdot CH_2Cl_2$ and $[PdClMe\{1,2\text{-}(P^iPr_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10}\}]$, 39

Polyethylene
The formation and polymerization behavior of Ni(II) α-diimine complexes using various aluminum activators, 158

Polyhedral
A structural isomer of the $[CoFe_3(CO)_{13}]^-$ anion, 281

Poly(lactone)
Synthesis and crystal structure of one carbon-atom bridged lutetium complex $[Ph_2C(Flu)(Cp)]LuN(TMS)_2$ and catalytic activity for polymerization of polar monomers, 82

Polymerization
Synthesis, structure and polymerization catalytic properties of doubly bridged bis(cyclopentadienyl) dinuclear titanium and zirconium complexes, 212
Synthesis, structures and polymerization catalytic properties of germyl-bridged bis(cyclopentadienyl) metallocenes, 262

Poly(MMA)
Synthesis and crystal structure of one carbon-atom bridged lutetium complex $[Ph_2C(Flu)(Cp)]LuN(TMS)_2$ and catalytic activity for polymerization of polar monomers, 82

Polypropylene
The formation and polymerization behavior of Ni(II) α-diimine complexes using various aluminum activators, 158

Pyranylidene
Synthesis of 2-pyranylidene or (2-furyl)carbene–chromium complexes from conjugated enyne carbonyl compounds with $Cr(CO)_5(THF)$, 228

Pyridazines
Doubly cyclopalladated pyridazines: chiral liquid crystals, 246

Retrocyclization
Retrocyclization reactions of *gem*-dibromo(ferrocenyl)cyclopropanes, 183

Ruthenium
Generation of $[1,2\text{-}(CH_2)_2C_5Me_3MC_5Me_4CH_2\text{-}1']^{+\cdot}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87
Syntheses and structures of dimethylamino-bridged bis(silylene)-ruthenium and -osmium complexes, 235
Ruthenium catalysts
Ruthenium-catalyzed hydrosilylation of terminal alkynes: stereodivergent synthesis of (*E*)- and (*Z*)-alkenylsilanes, 192

Salt-elimination
Convenient preparation of $Li[(\eta^5\text{-}C_5Me_5)M(CO)_2]$ (M = Ru, Fe) by the reaction of $(\eta^5\text{-}C_5Me_5)M(CO)_2H$ with *n*-BuLi, 201
Silanes
Hydrosilylation of alkynes catalyzed by platinum on carbon, 1
Silyl complex
Convenient preparation of $Li[(\eta^5\text{-}C_5Me_5)M(CO)_2]$ (M = Ru, Fe) by the reaction of $(\eta^5\text{-}C_5Me_5)M(CO)_2H$ with *n*-BuLi, 201
Silylene complexes
Syntheses and structures of dimethylamino-bridged bis(silylene)ruthenium and -osmium complexes, 235
Stereodivergent synthesis
Ruthenium-catalyzed hydrosilylation of terminal alkynes: stereodivergent synthesis of (*E*)- and (*Z*)-alkenylsilanes, 192
Structure–activity
Synthesis, microbiological study and X-ray structural characterisation of a tri-*n*-butylstannyl-2[4(diethylamino)arylazo]-benzenecarboxylate, 33
Synthesis
Synthesis and luminescence properties of novel ferrocene–naphthalimides dyads, 168

Tin complexes
Synthesis and crystal structures of new complexes of di- and tribenzyltin *N*-ethyl and *N*-benzyl-2-amino cyclopent-1-ene-1-carbodithioates, 105
Titanium
Synthesis, structure and polymerization catalytic properties of doubly bridged bis(cyclopentadienyl) dinuclear titanium and zirconium complexes, 212
Titanocene
Synthesis, structures and polymerization catalytic properties of germyl-bridged bis(cyclopentadienyl) metallocenes, 262
Titanoxacycle
Intramolecular cyclization of benzyl-substituted cyclopentadienyl titanium dichlorides promoted by boron tribromide, 59
Trialkylantimony(V)
Triorganoantimony(V) complexes with internally functionallized oximes: synthetic, spectroscopic and structural aspects of $[R_3Sb(Br)L]$, $[R_3Sb(OH)L]$ and $[R_3SbL_2]$, crystal and molecular structures of $[Me_3Sb\{ON{=}C(Me)C_4H_3O\}_2]$, $[Me_3Sb\{ON{=}C(Me)C_4H_3S\}_2]$, 2-$OC_4H_3C(Me)$=NOH and 2-$SC_4H_3C(Me)$=NOH, 118
Tributyltin analogs
Synthesis, microbiological study and X-ray structural characterisation of a tri-*n*-butylstannyl-2[4(diethylamino)arylazo]-benzenecarboxylate, 33
Trications
Generation of $[1,2\text{-}(CH_2)_2C_5Me_3MC_5Me_4CH_2\text{-}1']^{+\cdot}$ (M = Ru, Os) trications and determination of their structures by comparing NMR-spectra with density-functional method calculations, 87

Trigonal twist process
Investigations on the trigonal twist process in the pseudooctahedral complexes $[MX(CO)_2(P\text{–}P)(\eta^3\text{-}R)]$ (M = Mo or W; X = halide or pseudohalide; P–P = bidentate P-donor ligand; R = cycloheptatrienyl, cyclohexenyl or cyclooctenyl), 218
2,4,6-Trimercaptotriazine
Organomercury derivatives of the 2,4,6-trimercaptotriazine (H_3TMT). X-ray crystal structure of $(HgMe)_3(TMT)$, 101
Triorgano stannyl
Synthesis, microbiological study and X-ray structural characterisation of a tri-*n*-butylstannyl-2[4(diethylamino)arylazo]-benzenecarboxylate, 33
Triorganotin complexes
Organotin(IV) derivatives of novel β-diketones: Part V. Synthesis and characterization of di- and triorganotin(IV) derivatives of 4-acyl-5-pyrazolones modified in position 3 of the pyrazole. Crystal structure of (1,3-diphenyl-4-benzoyl-pyrazolon-5-ato)triphenyltin(IV), 134
Tungsten hexacarbonyl
Synthesis of conjugated polymers with ferrocene units as pendants or as end-groups, 27

Vinylidene
Synthesis of 2-pyranylidene or (2-furyl)carbene–chromium complexes from conjugated enyne carbonyl compounds with $Cr(CO)_5(THF)$, 228

X-ray
Triorganoantimony(V) complexes with internally functionallized oximes: synthetic, spectroscopic and structural aspects of $[R_3Sb(Br)L]$, $[R_3Sb(OH)L]$ and $[R_3SbL_2]$, crystal and molecular structures of $[Me_3Sb\{ON{=}C(Me)C_4H_3O\}_2]$, $[Me_3Sb\{ON{=}C(Me)C_4H_3S\}_2]$, 2-$OC_4H_3C(Me)$=NOH and 2-$SC_4H_3C(Me)$=NOH, 118
X-ray analysis
A mixed-valence dimanganese complex synthesized from the $[Ph_2P(O)NP(O)Ph_2]^-$ anion with $[BrMn(CO)_5]$, 54
X-ray crystal structure
Preparation and properties of dinuclear bis[dicarbonyl(cyclopentadienyl)]diiron(II) complexes with S–S coupled, dimerized sulfur-rich dithiolate ligands, 94
X-ray crystal structures
Syntheses and structures of dimethylamino-bridged bis(silylene)-ruthenium and -osmium complexes, 235
X-ray structure
A structural isomer of the $[CoFe_3(CO)_{13}]^-$ anion, 281
X-ray structure.
Organomercury derivatives of the 2,4,6-trimercaptotriazine (H_3TMT). X-ray crystal structure of $(HgMe)_3(TMT)$, 101
X-ray structures
Water soluble phosphines: Part XV. Syntheses of multiply functionalized and chiral phosphine ligands by Pd-catalyzed P–C and C–C coupling reactions, 14

Zirconium
Dinuclear zirconium complexes containing the fulvalene ligand. Synthesis and reactivity, 112
Synthesis, structure and polymerization catalytic properties of doubly bridged bis(cyclopentadienyl) dinuclear titanium and zirconium complexes, 212
Zirconocene
Synthesis, structures and polymerization catalytic properties of germyl-bridged bis(cyclopentadienyl) metallocenes, 262